

# ACM-TGLUE0-Ax

COM Express Mini Module Type 10  
with Intel® Tiger Lake U



## User Manual

Acrosser Technology Co., Ltd.  
[www.acrosser.com](http://www.acrosser.com)

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## Purpose

This document is intended to provide the information about the features and use of the product.

## Audience

The intended audiences are technical personnel, not for general audiences.

## WARNING

Danger of explosion if batteries are incorrectly replaced. Always replace the battery with the same specifications. Dispose of used batteries according to the manufacturer's instructions.

Before running the system, make sure the power cord is firmly plugged into the socket.

## CAUTION



IEC 60417-6042 (2010-11)



IEC 60417-6172 (2012-09)

All power cords must be disconnected during product repair.

Ver: 100

Date: Apr. 11, 2022

**To read this User Manual on your smart phone, you will have to install an APP that can read PDF file format first. Please find the APP you prefer from the APP Market.**

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# 1. Introduction

ACM-TGLUE0-A0 (Intel 11 Core i7-1185GRE ) +16GB RAM

ACM-TGLUE0-A1 (Intel 11 Core i7-1187G7E ) +16GB RAM

ACM-TGLUE0-A2 (Intel 11 Core i5-1145G7E ) +16GB RAM

ACM-TGLUE0-A3 (Intel 11 Core i3-1115G4E ) +8GB RAM

## 1.1. Specifications

<b>CPU</b>	<ul style="list-style-type: none"> <li>11th Generation Intel® Core™ Processor Family (formerly Tiger Lake UP3)</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® SoC</li> </ul>
<b>GPU</b>	<ul style="list-style-type: none"> <li>Intel® Irix XE Graphic Intel® UHD Graphics for 11th Gen processor</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>1x eDP 1x DDI port</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>AMI UEFI</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>Onboard LPDDR4x 4266 memory 8GB (A3 only)/ 16GB</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>Onboard PCIe NVMe SSD 64GB</li> </ul>
<b>GbE Ethernet</b>	<ul style="list-style-type: none"> <li>1x Intel I225LM GbE Lan, supports PXE Boot</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>2x SATA III (6.0Gb/s)</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>8x USB2.0</li> <li>2x USB3.2 Gen2</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>1x Intel High Definition Audio</li> </ul>
<b>Serial Port</b>	<ul style="list-style-type: none"> <li>2x wire UART (Only TX &amp; RX)</li> </ul>
<b>GPIO</b>	<ul style="list-style-type: none"> <li>8 bit</li> </ul>
<b>Expansion</b>	<ul style="list-style-type: none"> <li>4x PCI Express 3.0 lanes</li> <li>4 PCIe x1</li> <li>I2C</li> <li>LPC</li> <li>SMBus</li> </ul>
<b>OS Support</b>	<ul style="list-style-type: none"> <li>Windows 10</li> <li>Linux Kernel 64-bit</li> </ul>
<b>Watchdog Timer</b>	<ul style="list-style-type: none"> <li>Software programmable 0~255 seconds, 0 = disable timer.</li> </ul>
<b>Power Mode</b>	<ul style="list-style-type: none"> <li>AT/ATX Mode (by jumper setting)</li> </ul>

---

<b>Operating Temperature</b>	<ul style="list-style-type: none"><li>• ACM-TGLUE0-A0 (i7-1185GRE -40°C~85°C)</li><li>• ACM-TGLUE0-A1 (i7-1187G7E 0°C ~ 60°C)</li><li>• ACM-TGLUE0-A2 (i5-1145G7E 0°C ~ 60°C)</li><li>• ACM-TGLUE0-A3 (i3-1115G4E 0°C ~ 60°C)</li></ul>
<b>Dimension</b>	<ul style="list-style-type: none"><li>• 84 mm x 55 mm (3.31" x 2.17") COM Express type 10</li></ul>
<b>Safety</b>	<ul style="list-style-type: none"><li>• CE, FCC Class A</li></ul>

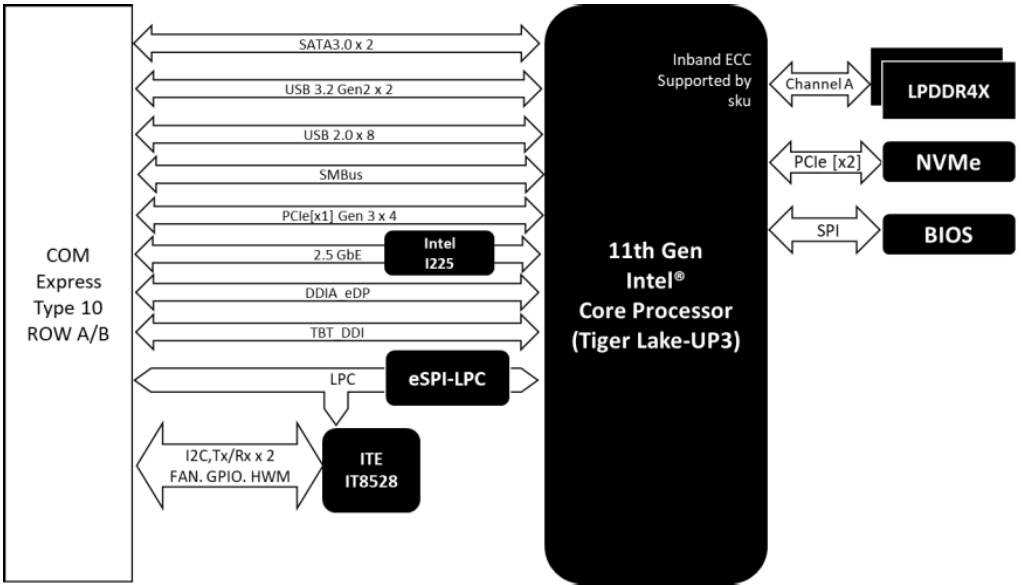
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## 1.2. Packing List

Check if the following items are included in the package.

	<b>Item</b>	<b>Q'ty</b>
<input type="checkbox"/>	ACM-TGLUE0	1
<input type="checkbox"/>	CPU Cooler	1

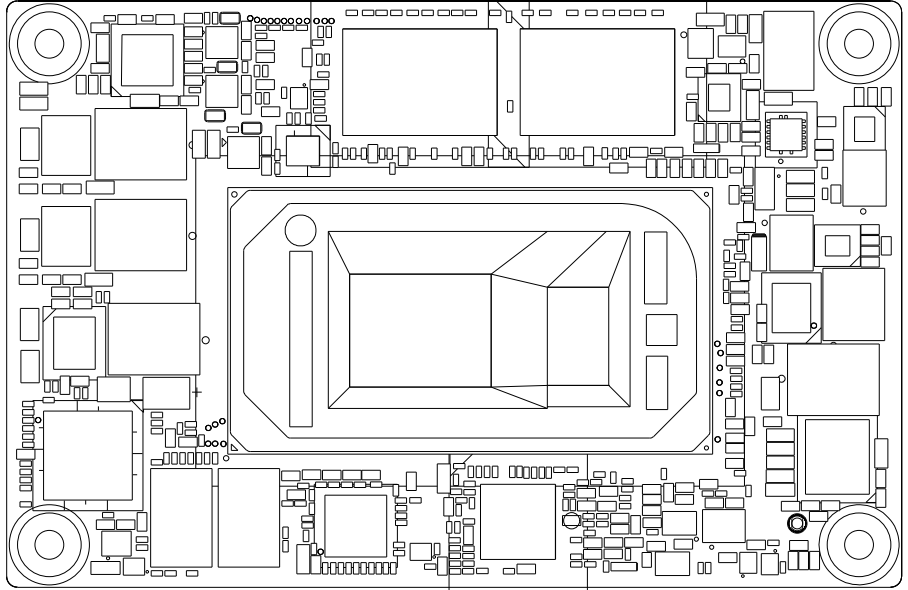
### 1.3. Block Diagram



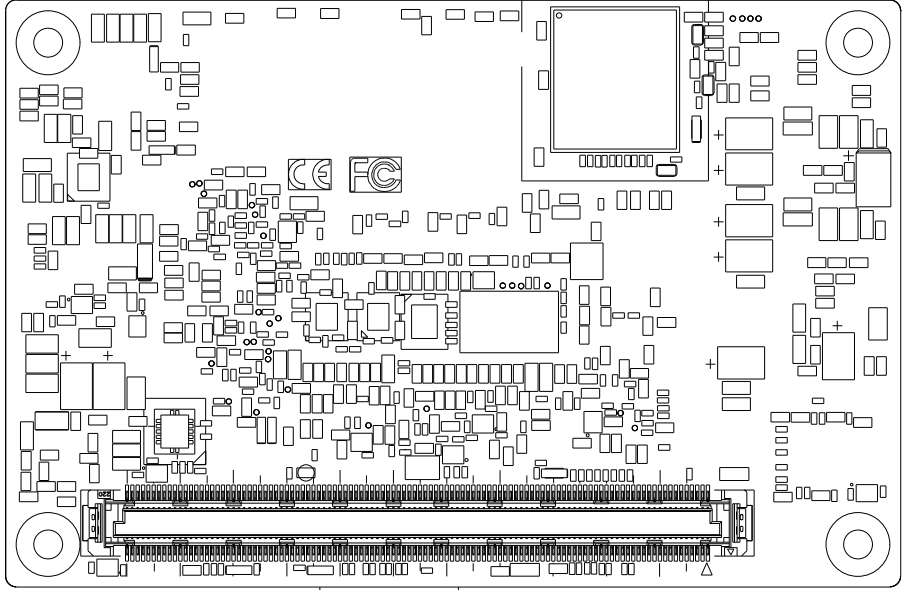
## 2. Hardware Information

### 2.1. Mainboard Layout

Top View





**Bottom View**


## 2.2. Row A/B Pin Assignments

Pin #	Row A	Pin #	Row B
A1	GND (FIXED)	B1	GND (FIXED)
A2	GBE0_MDI3-	B2	GBE0_ACT#
A3	GBE0_MDI3+	B3	LPC_FRAME#
A4	GBE0_LINK100#	B4	LPC_AD0
A5	GBE0_LINK1000#	B5	LPC_AD1
A6	GBE0_MDI2-	B6	LPC_AD2
A7	GBE0_MDI2+	B7	LPC_AD3
A8	GBE0_LINK#	B8	N.C.
A9	GBE0_MDI1-	B9	N.C.
A10	GBE0_MDI1+	B10	LPC_CLK
A11	GND (FIXED)	B11	GND (FIXED)
A12	GBE0_MDI0-	B12	PWRBTN#
A13	GBE0_MDI0+	B13	SMB_CK
A14	N.C.	B14	SMB_DAT
A15	SUS_S3#	B15	SMB_ALERT#

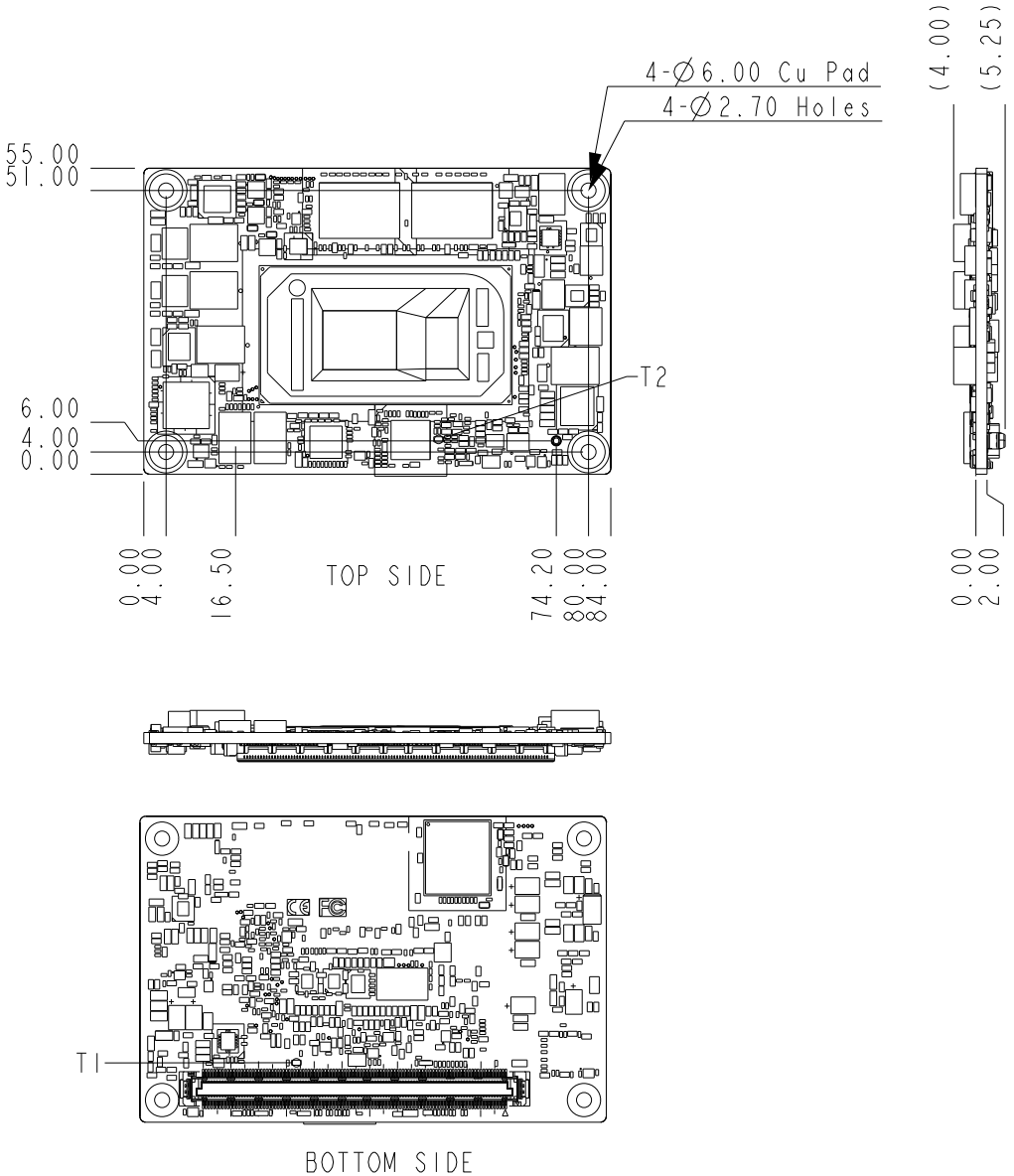
Pin #	Row A	Pin #	Row B
A16	SATA0_TX+	B16	SATA1_TX+
A17	SATA0_TX-	B17	SATA1_TX-
A18	SUS_S4#	B18	SUS_STAT#
A19	SATA0_RX+	B19	SATA1_RX+
A20	SATA0_RX-	B20	SATA1_RX-
A21	GND (FIXED)	B21	GND (FIXED)
A22	USB3_RXN0	B22	USB3_TXN0
A23	USB3_RXP0	B23	USB3_TXP0
A24	SUS_S4#	B24	PWR_OK
A25	USB3_RX1_N	B25	USB3_TX1_N
A26	USB3_RX1_P	B26	USB3_TX1_P
A27	BATLOW#	B27	WDT
A28	ATA_ACT#	B28	N.C.
A29	AC_SYNC	B29	N.C.
A30	AC_RST#	B30	AC_SDIN0
A31	GND (FIXED)	B31	GND (FIXED)
A32	AC_BITCLK	B32	SPKR
A33	AC_SDOUT	B33	I2C_CK
A34	BIOS_DIS0#	B34	I2C_DAT
A35	THRMTRIP#	B35	THRM#
A36	USB6-	B36	USB7-
A37	USB6+	B37	USB7+
A38	USB_6_7_OC#	B38	USB_4_5_OC#
A39	USB4-	B39	USB5-
A40	USB4+	B40	USB5+
A41	GND (FIXED)	B41	GND (FIXED)
A42	USB2-	B42	USB3-
A43	USB2+	B43	USB3+
A44	USB_2_3_OC#	B44	USB_0_1_OC#
A45	USB0-	B45	USB1-
A46	USB0+	B46	USB1+
A47	VCC_RTC	B47	N.C.
A48	N.C.	B48	N.C.
A49	N.C.	B49	SYS_RESET#

Pin #	Row A	Pin #	Row B
A50	LPC_SERIRQ	B50	CB_RESET#
A51	GND (FIXED)	B51	GND (FIXED)
A52	N.C.	B52	N.C.
A53	N.C.	B53	N.C.
A54	GPI0	B54	GPO1
A55	N.C.	B55	N.C.
A56	N.C.	B56	N.C.
A57	GND	B57	GPO2
A58	PCIE_TX3+	B58	PCIE_RX3+
A59	PCIE_TX3-	B59	PCIE_RX3-
A60	GND (FIXED)	B60	GND (FIXED)
A61	PCIE_TX2+	B61	PCIE_RX2+
A62	PCIE_TX2-	B62	PCIE_RX2-
A63	GPI1	B63	GPO3
A64	PCIE_TX1+	B64	PCIE_RX1+
A65	PCIE_TX1-	B65	PCIE_RX1-
A66	GND	B66	WAKE0#
A67	GPI2	B67	WAKE1#
A68	PCIE_TX0+	B68	PCIE_RX0+
A69	PCIE_TX0-	B69	PCIE_RX0-
A70	GND (FIXED)	B70	GND (FIXED)
A71	EDP_TX2_P	B71	DDIO_PAIR0+
A72	EDP_TX2_N	B72	DDIO_PAIR0-
A73	EDP_TX1_P	B73	DDIO_PAIR1+
A74	EDP_TX1_N	B74	DDIO_PAIR1-
A75	EDP_TX0_P	B75	DDIO_PAIR2+
A76	EDP_TX0_N	B76	DDIO_PAIR2-
A77	EDP_VDDEN	B77	N.C.
A78	N.C.	B78	N.C.
A79	N.C.	B79	EDP_BKLTEN
A80	GND (FIXED)	B80	GND (FIXED)
A81	EDP_TX3_P	B81	DDIO_PAIR3+
A82	EDP_TX3_N	B82	DDIO_PAIR3-
A83	EDP_AUXP	B83	EDP_BKLT_CTRL

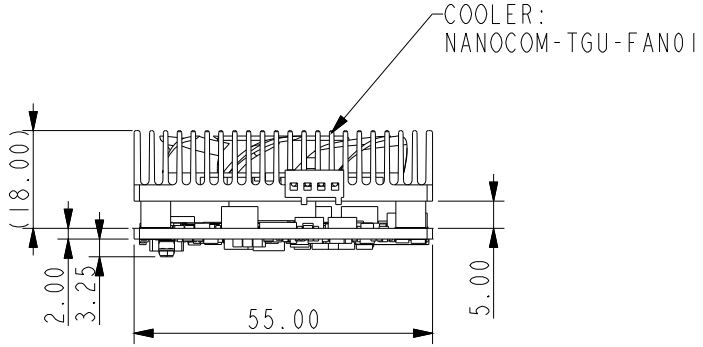
Pin #	Row A	Pin #	Row B
A84	EDP_AUXN	B84	VCC_5V_SBY
A85	GPI3	B85	VCC_5V_SBY
A86	N.C.	B86	VCC_5V_SBY
A87	EDP_HPD	B87	VCC_5V_SBY
A88	PCIE0_CK_REF+	B88	BISO_DIS1#
A89	PCIE0_CK_REF-	B89	DDI0_HPD
A90	GND (FIXED)	B90	GND (FIXED)
A91	SPI_POWER	B91	N.C.
A92	SPI_MISO	B92	N.C.
A93	GPO0	B93	N.C.
A94	SPI_CLK	B94	N.C.
A95	SPI_MOSI	B95	DDI0_DDC_AUX_SEL
A96	GND	B96	N.C.
A97	TYPE10# (Pull down 47k ohm to GND)	B97	SPI_CS#
A98	RS1_TX	B98	DDI0_AUX_DP
A99	RS1_RX	B99	DDI0_AUX_DN
A100	GND (FIXED)	B100	GND (FIXED)
A101	RS2_TX	B101	FAN_PWMOUT
A102	RS2_RX	B102	FAN_TACHIN
A103	LID#	B103	SLEEP#
A104	VCC_12V	B104	VCC_12V
A105	VCC_12V	B105	VCC_12V
A106	VCC_12V	B106	VCC_12V
A107	VCC_12V	B107	VCC_12V
A108	VCC_12V	B108	VCC_12V
A109	VCC_12V	B109	VCC_12V
A110	GND (FIXED)	B110	GND (FIXED)

## 2.3. Board Dimension

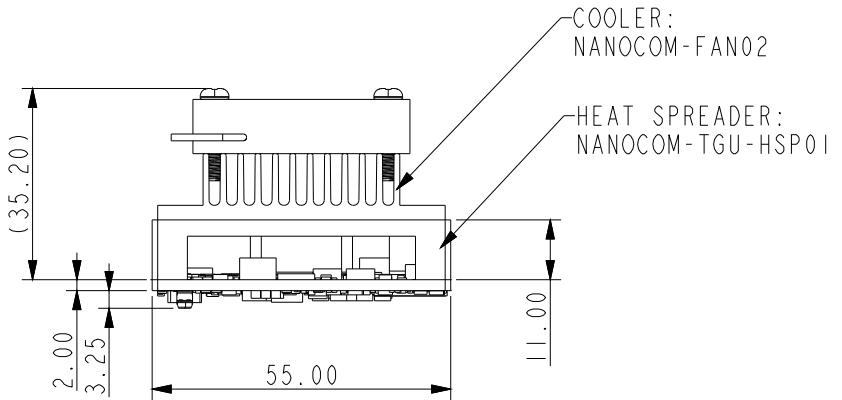
(Unit: mm)



WITH ONE-PIECE THERMAL SOLUTION



WITH STANDARD THERMAL SOLUTION  
(HEAT SPREADER + SEMI-COOLER)



### 3. BIOS Settings

The AMI BIOS ROM has a pre-installed Setup program that allows users to modify basic system configurations, which is stored in the battery-backed CMOS RAM and BIOS NVRAM so that the information is retained when the power is turned off.

To enter BIOS Setup, press <Del> or <F2> immediately while your computer is powering up.

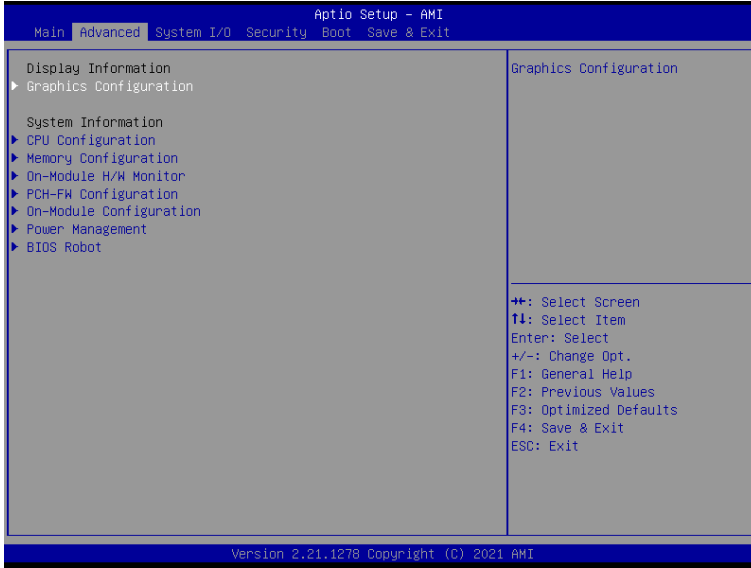
The function for each interface can be found below.

- Main – Date and time can be set here. Press <Tab> to switch between date elements
- Advanced – Enable/ Disable boot option for legacy network devices
- System I/O – For configuring PCI Express settings
- Security – The setup administrator password can be set here
- Boot – Enable/ Disable Quiet Boot option
- Save & Exit – Save your changes and exit the program

#### 3.1. Main Setup



## 3.2. Advanced Setup



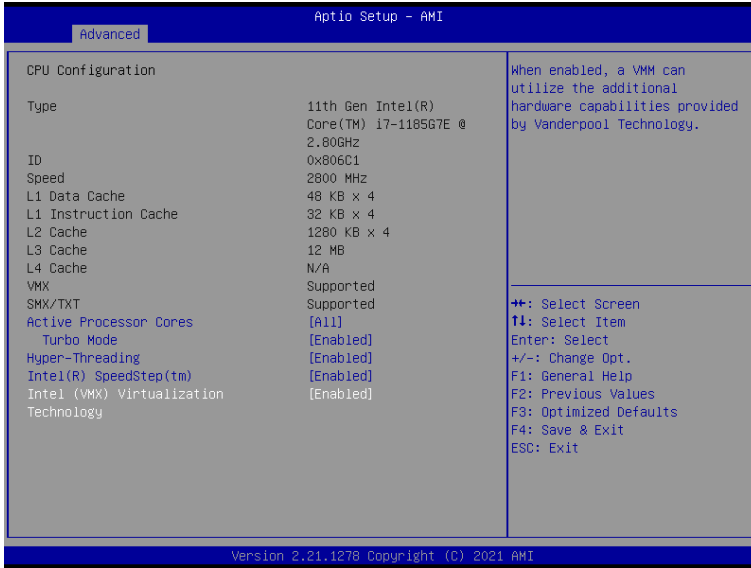
### 3.2.1. Graphics Configuration



- **VBT Select**  
Select VBT for GOP Driver.

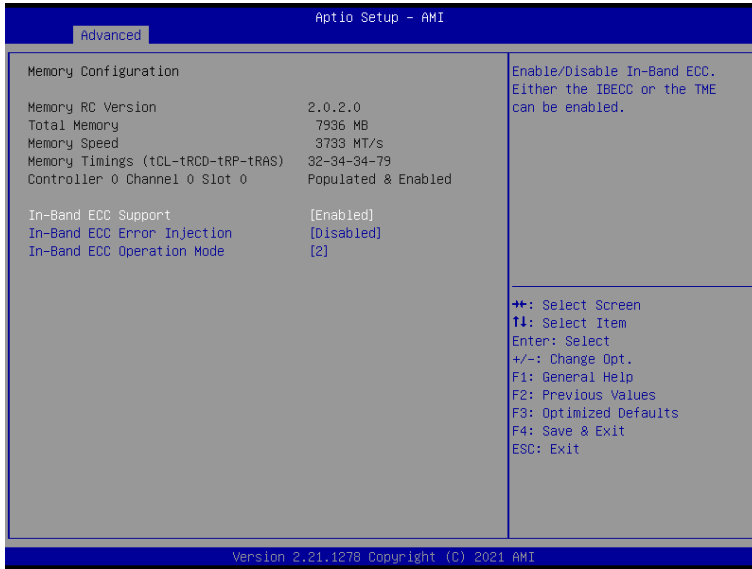


### 3.2.2. CPU Configuration



- **Active Processor Cores**  
Number of cores to enable in each processor package.
- **Turbo Mode**  
Enable/Disable processor Turbo Mode (requires EMTTM enabled too). AUTO means enabled.
- **Hyper-Threading**  
Enable or Disable Hyper-Threading Technology.
- **Intel(R) SpeedStep(tm)**  
Allows more than two frequency ranges to be supported.
- **Intel (VMX) Virtualization Technology**  
When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.

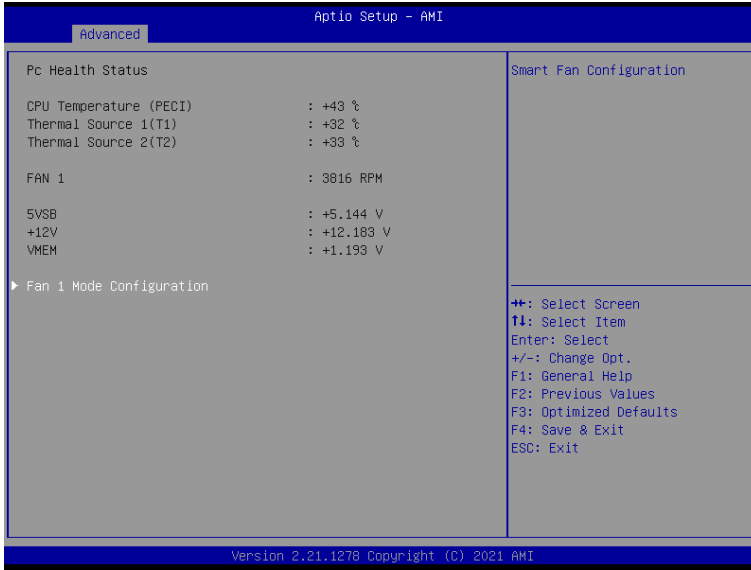
### 3.2.3. Memory Configuration



Note: In-Band ECC Support availability depends on CPU.

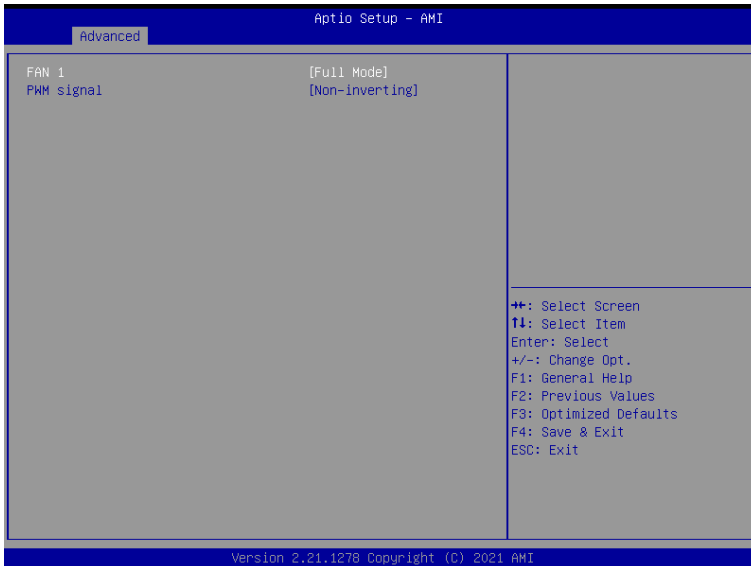
- **In-Band ECC Support**  
Enable/Disable In-Band ECC. Either the IB ECC or the TME can be enabled.
- **In-Band ECC Error Injection**  
By enabling this Error Injection feature, the user acknowledges the security risks. Enabling Error Injection allows attackers who have access to the Host Operating System to inject IB ECC errors that can cause unintended memory corruption and enable the leak of security data in the BIOS stolen memory regions.
- **In-Band ECC Operation Mode**  
0: Functional Mode protects requests based on the address range,  
1: Makes all requests non-protected and ignore range checks,  
2: Makes all requests protected and ignore range checks

### 3.2.4. On-Module H/W Monitor



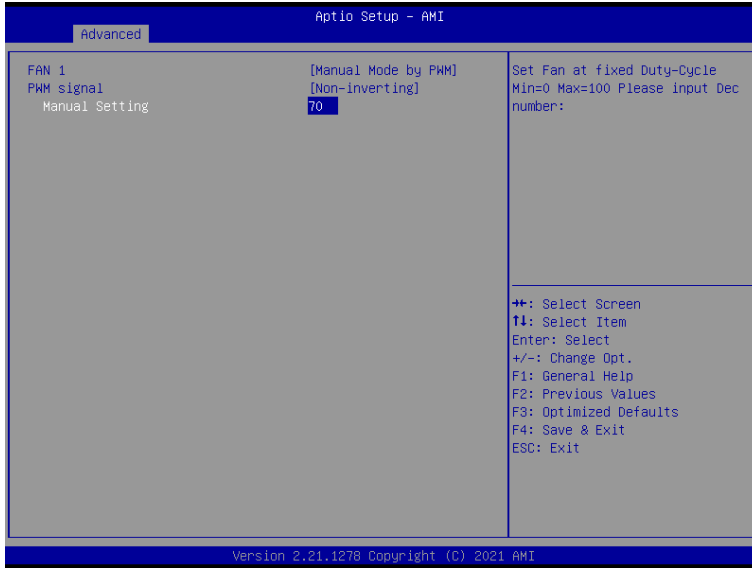
#### 3.2.4.1. Fan 1 Mode Configuration

##### Fan 1: Full Mode



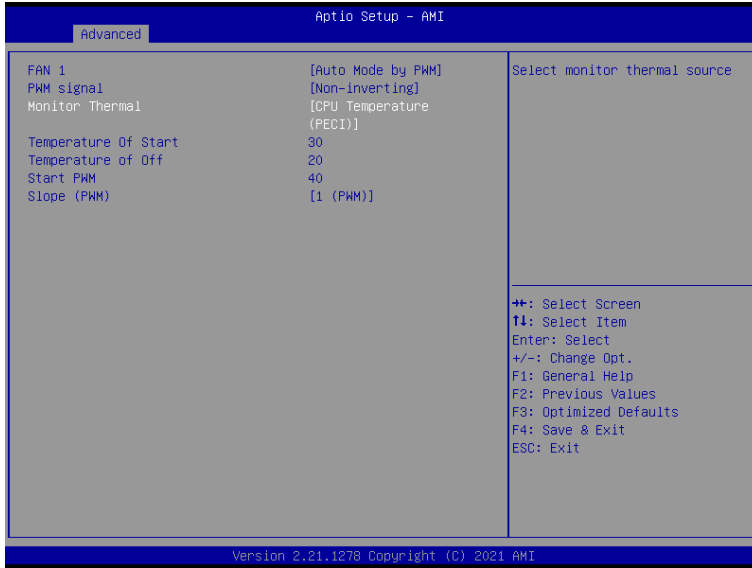
- **FAN 1**  
Smart Fan Mode Select.
- **PWM signal**  
Select output PWM of inverting or non-inverting signal.

### Fan 1: Manual Mode by PWM



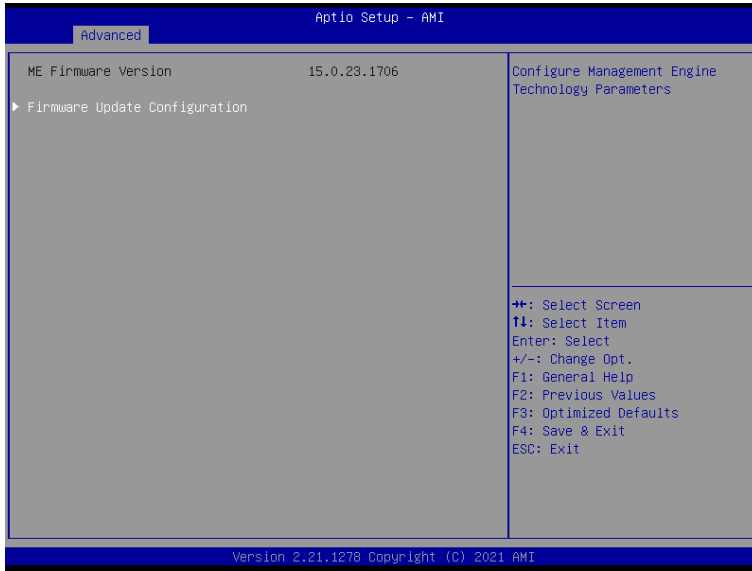
- **Manual Setting**  
Set Fan at fixed Duty-Cycle  
Min = 0 Max = 100  
Please input Dec number:

## Fan 1: Auto Mode by PWM

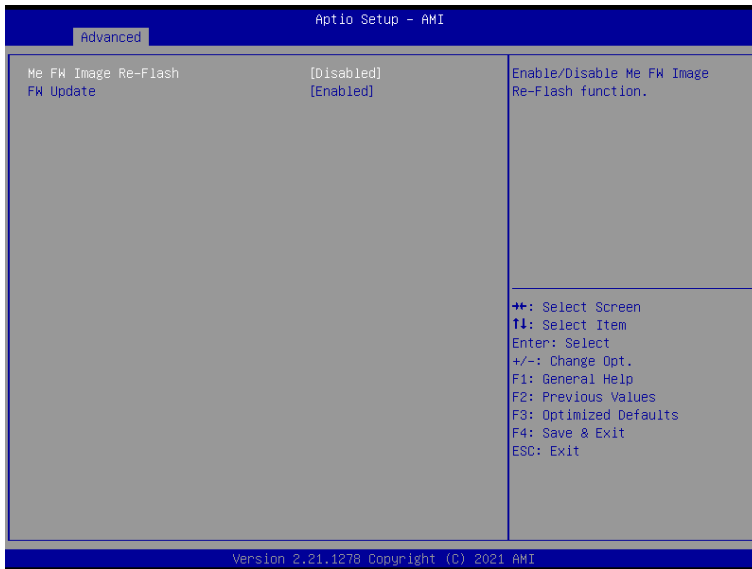


- **Monitor Thermal**  
Select monitor thermal source
- **Temperature Of Start**  
Temperature Of Start
- **Temperature of Off**  
Temperature of Off
- **Start PWM**  
Start PWM
- **Slope (PWM)**  
Slope (PWM)

### 3.2.5. PCH-FW Configuration



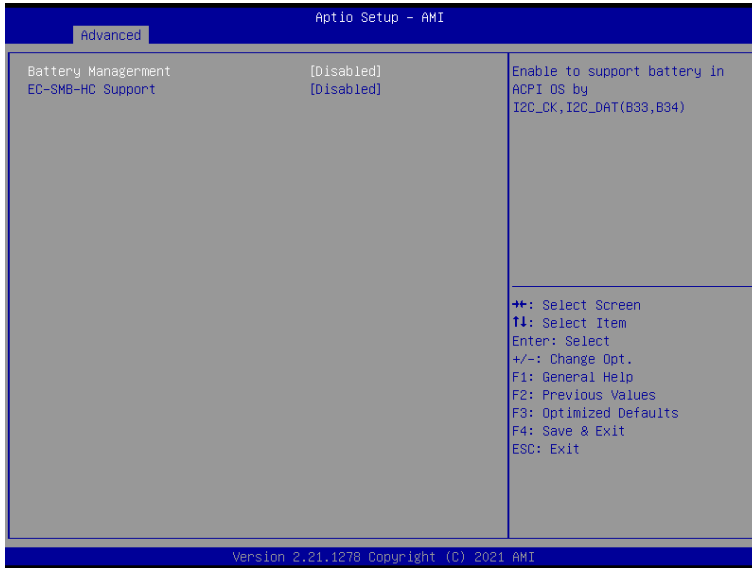
#### 3.2.5.1. Firmware Update Configuration



- **Me FW Image Re-Flash**  
Enable/Disable Me FW Image Re-Flash function.

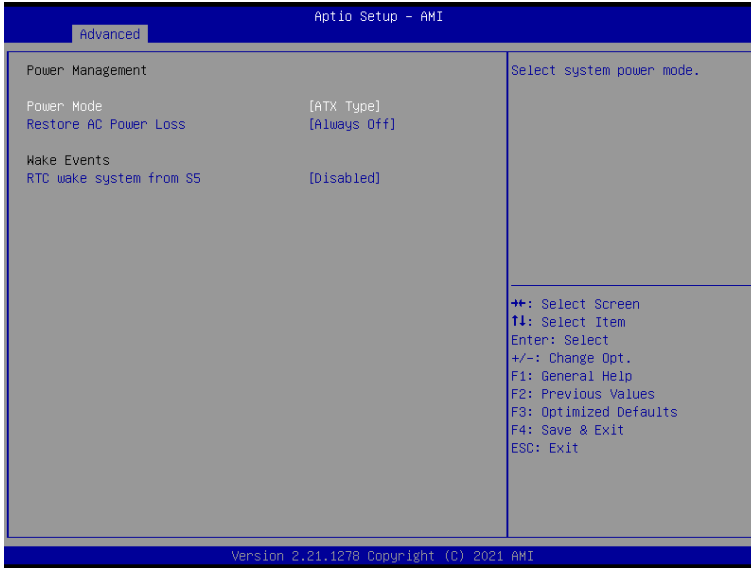
- **Local FW Update**  
Enable/Disable ME FW Update function

### 3.2.6. On-Module Configuration



- **Battery Management**  
Enable to support battery in ACPI OS by I2C\_CK, I2C\_DAT (B33, B34)
- **EC-SMB-HC Support**  
SMBus Host Controller Interface via Embedded Controller.

### 3.2.7. Power Management



- **Power Mode**  
Select system power mode.
- **Restore AC Power Loss**  
SIO Restore AC Power Loss: To decide the behavior after system power cut then resupply. Note: the CMOS battery must be present.
- **RTC wake system from S5**  
Fixed Time: System will wake on the hr:min:sec specified.  
Dynamic Time: System will wake on the current time + Increase minute(s)  
Bypass: BIOS will not control RTC wake function during system shutdown



### 3.2.8. BIOS Robot

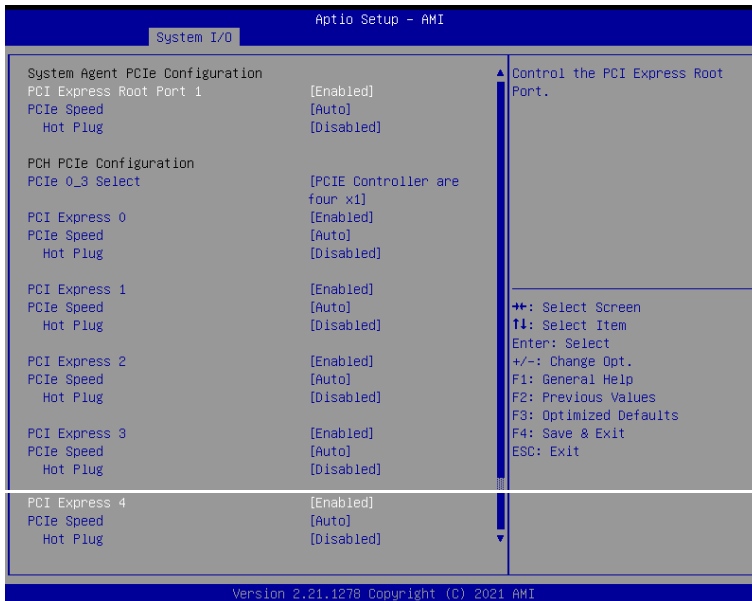


- Sends watch dog before BIOS POST**  
 Enabled - Robot set Watch Dog Timer (WDT) right after power on, before BIOS start POST process. And then Robot will clear WDT on completion of POST. WDT will reset system automatically if it is not cleared before its timer counts down to zero.
- Sends watch dog before booting OS**  
 Enabled - Robot set Watch Dog Timer (WDT) after POST completion, before BIOS transfer control to OS.  
**WARNING:** Before enabling this function, a program in OS must be in responsible for clearing WDT. Also, this function should be disabled if OS is going to update itself.
- Delayed POST (PEI phase)**  
 Enabled – Robot holds BIOS from starting POST, right after power. This allows BIOS POST to start with stable power or start after system is physically warmed-up.  
 Note: Robot does this before ‘Sends watch dog’.
- Delayed POST (DXE phase)**  
 Enabled – Robot holds BIOS from starting POST, right after power. This allows BIOS POST to start with stable power or start after system is physically warmed-up.  
 Note: Robot does this before ‘Sends watch dog’.
- Reset System once**  
 Enabled – Robot resets system for one time on each boot. This will send a soft or hard reset to onboard devices, thus puts devices to more stable state.

### 3.3. System I/O Setup

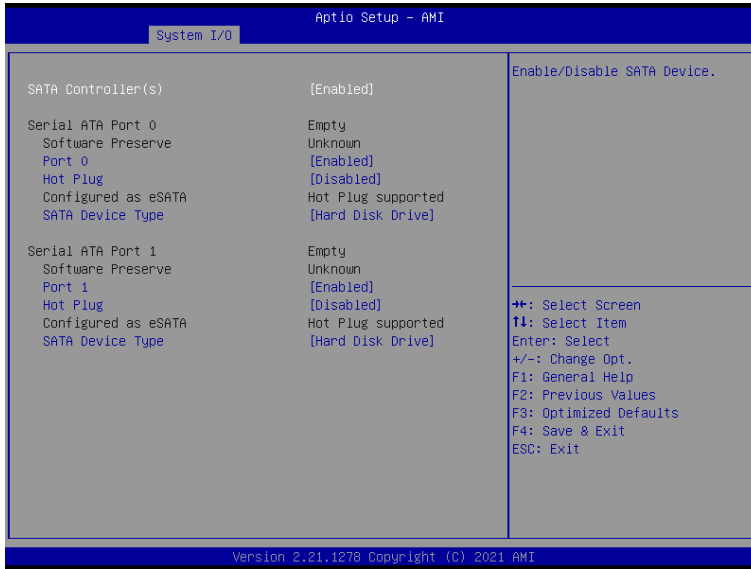


#### 3.3.1. PCI Express Configuration



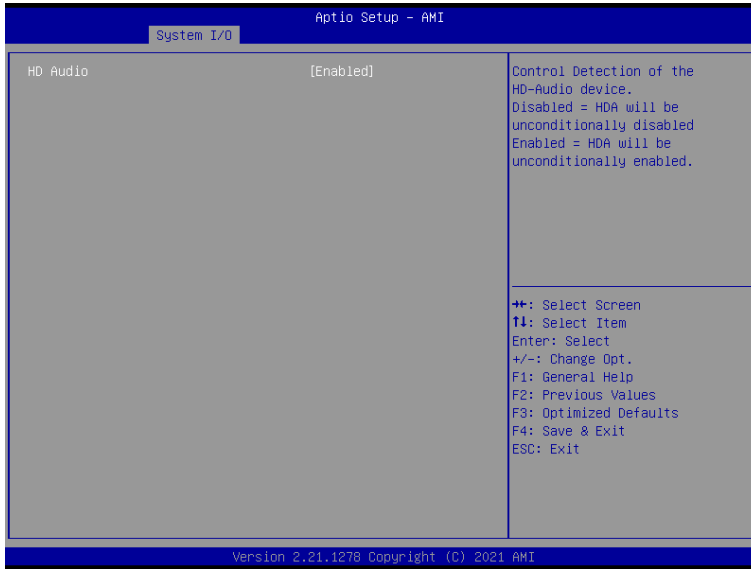
- **PCI Express Root Port 1**  
Control the PCI Express Root Port.
- **PCIe Speed**  
Configure PCIe Speed.
- **Hot Plug**  
PCI Express Hot Plug Enable/Disable.
- **PCIe 0\_3 Select**  
PCIe Controller Selection.
- **PCI Express 0**  
Control the PCI Express Root Port.
- **PCIe Speed**  
Configure PCIe Speed.
- **Hot Plug**  
PCI Express Hot Plug Enable/Disable.
- **PCI Express 1**  
Control the PCI Express Root Port.
- **PCIe Speed**  
Configure PCIe Speed.
- **Hot Plug**  
PCI Express Hot Plug Enable/Disable.
- **PCI Express 2**  
Control the PCI Express Root Port.
- **PCIe Speed**  
Configure PCIe Speed.
- **Hot Plug**  
PCI Express Hot Plug Enable/Disable.
- **PCI Express 3**  
Control the PCI Express Root Port.
- **PCIe Speed**  
Configure PCIe Speed.
- **Hot Plug**  
PCI Express Hot Plug Enable/Disable.
- **PCI Express 4**  
Control the PCI Express Root Port.
- **PCIe Speed**  
Configure PCIe Speed.
- **Hot Plug**  
PCI Express Hot Plug Enable/Disable.

### 3.3.2. Storage Configuration



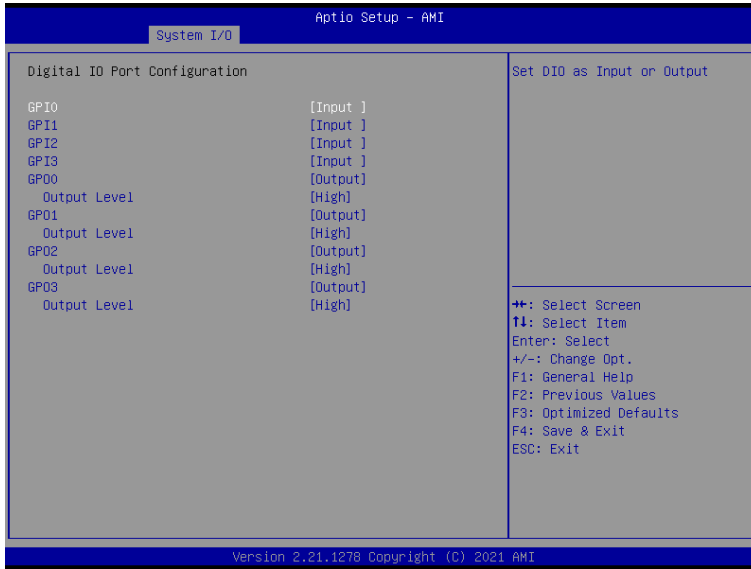
- **SATA Controller(s)**  
Enable/Disable SATA Device.
- **Port 0**  
Enable or Disable SATA Port.
- **Hot Plug**  
Designates this port as Hot Pluggable.
- **SATA Device Type**  
Identify the SATA port is connected to Solid State Drive or Hard Disk Drive.
- **Port 1**  
Enable or Disable SATA Port.
- **Hot Plug**  
Designates this port as Hot Pluggable.
- **SATA Device Type**  
Identify the SATA port is connected to Solid State Drive or Hard Disk Drive.

### 3.3.3. HD Audio Configuration



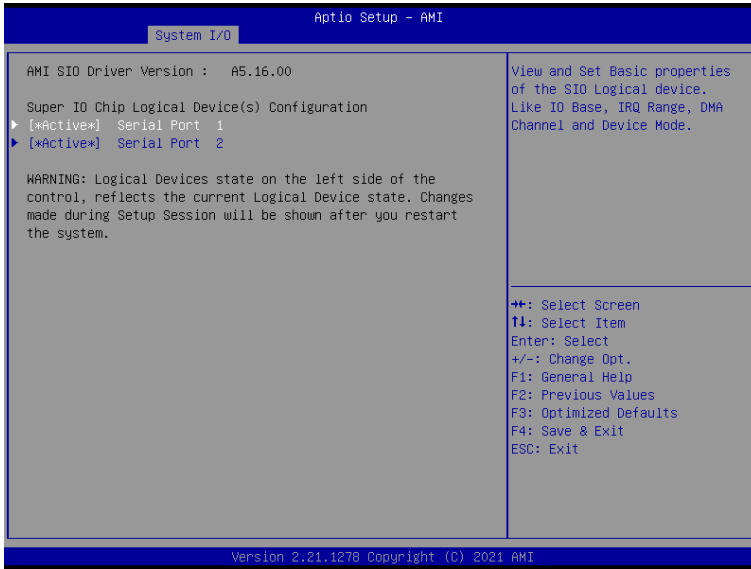
- HD Audio**  
 Control Detection of the HD-Audio device.  
 Disabled: HD-Audio will be unconditionally disabled.  
 Enabled: HD-Audio will be unconditionally enabled.

### 3.3.4. Digital IO Port Configuration

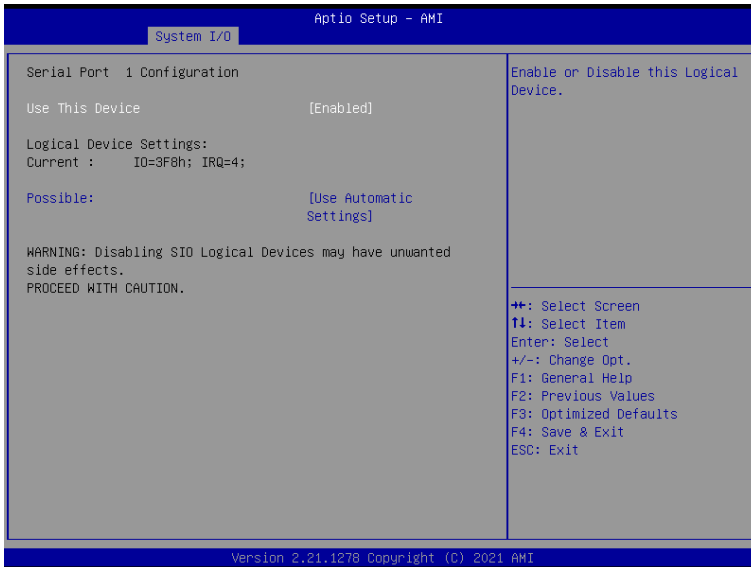


- **GPI\***  
Set DIO as Input or Output.
- **GPO\***  
Set DIO as Input or Output.
- **Output Level**  
Set output level when DIO pin is output.

### 3.3.5. Legacy Logical Devices Configuration



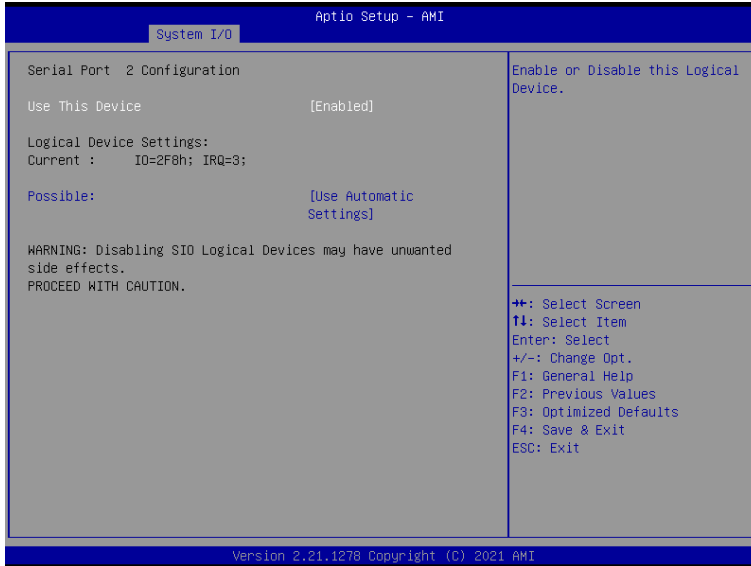
#### 3.3.5.1. Serial Port 1 Configuration



- **Use This Device**  
Enable or Disable this Logical Device.

- Possible**  
 Allows the user to change the device resource settings. New settings will be reflected on this setup page after system restarts.

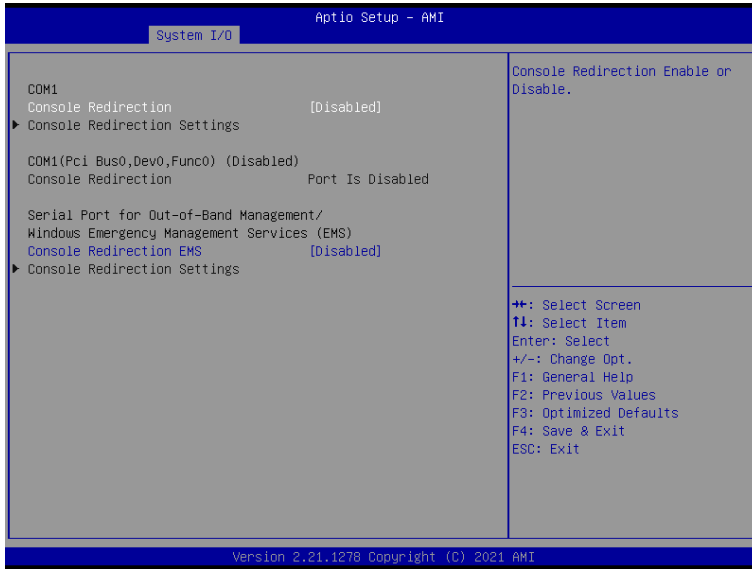
### 3.3.5.2. Serial Port 2 Configuration



- Use This Device**  
 Enable or Disable this Logical Device.
- Possible**  
 Allows the user to change the device resource settings. New settings will be reflected on this setup page after system restarts.

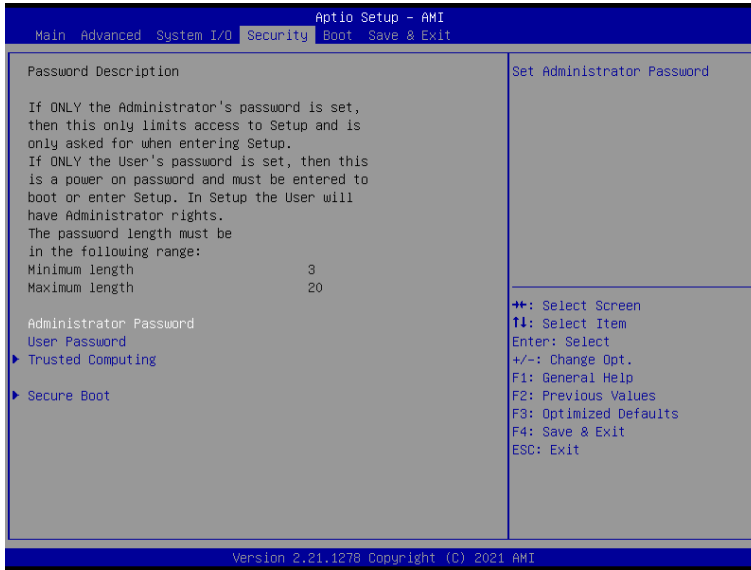


### 3.3.6. Serial Port Console Redirection



- **Console Redirection**  
Console Redirection Enable or Disable.
- **Console Redirection EMS**  
Console Redirection Enable or Disable.

### 3.4. Security Setup



- **Change User/Administrator Password**

You can set an Administrator Password or User Password. An Administrator Password must be set before you can set a User Password. The password will be required during boot up, or when the user enters the Setup utility. A User Password does not provide access to many of the features in the Setup utility.

Select the password you wish to set, and press Enter. In the dialog box, enter your password (must be between 3 and 20 letters or numbers). Press Enter and retype your password to confirm. Press Enter again to set the password.

- **Removing the Password**

Select the password you want to remove and enter the current password. At the next dialog box press Enter to disable password protection.

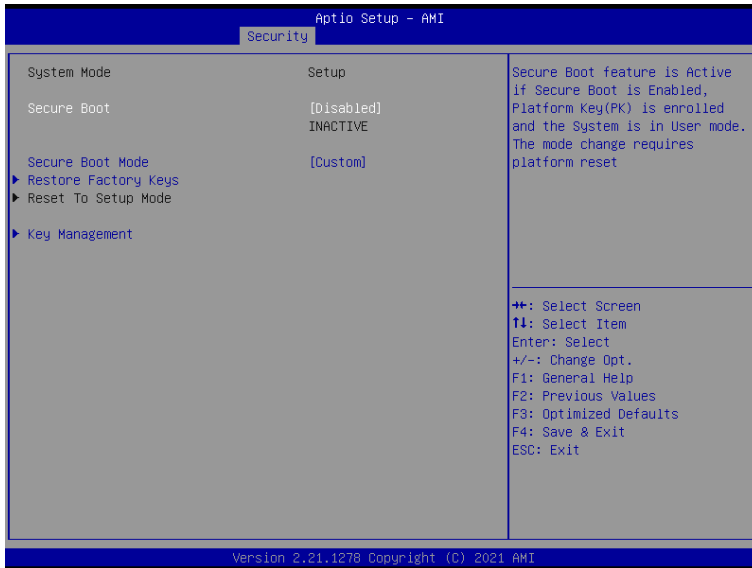
### 3.4.1. Trusted Computing



- **Security Device Support**  
Enables or Disables BIOS support for security device.  
O.S. will not show Security Device. TGU EFI protocol and INT1A interface will not be available.
- **SHA-1 PCR Bank**  
Enable or Disable SHA-1 PCR Bank
- **SHA384 PCR Bank**  
Enable or Disable SHA384 PCR Bank
- **SM3\_256 PCR Bank**  
Enable or Disable SM3\_256 PCR Bank
- **Pending operation**  
Schedule an Operation for the Security Device. Note: Your Computer will reboot during restart in order to change State of Security Device.
- **Platform Hierarchy**  
Enable or Disable Platform Hierarchy
- **Storage Hierarchy**  
Enable or Disable Storage Hierarchy
- **Endorsement Hierarchy**  
Enable or Disable Endorsement Hierarchy

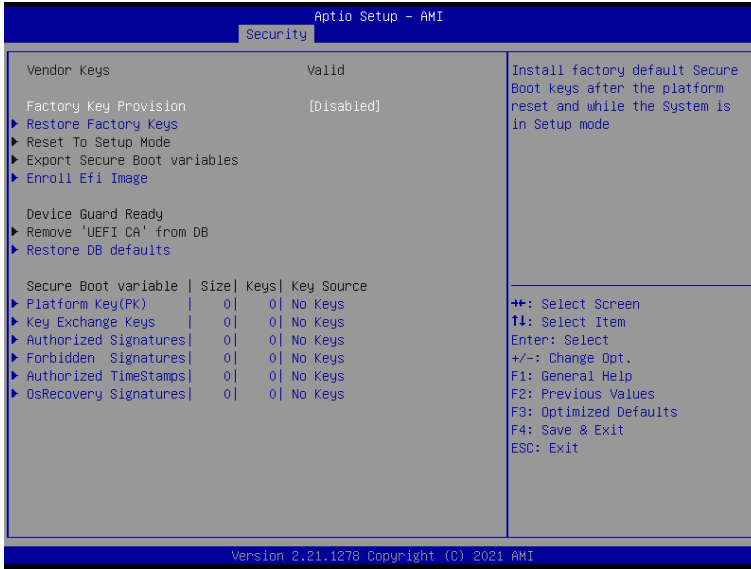
- TPM 2.0 UEFI Spec Version**  
 Select the TCG2 Spec Version Support,  
 TCG\_1\_2: the Compatible mode for Win8/Win10,  
 TCG\_2: Support new TCG2 protocol and event format for win10 or later.
- Physical Presence Spec Version**  
 Select to Tell O.S. to support PPI Spec Version 1.2 or 1.3. Note some HCK tests might not support 1.3.
- Device Select**  
 TPM 1.2 will restrict support to TPM 1.2 devices, TPM 2.0 will restrict support to TPM 2.0 devices, Auto will support both with the default set to TPM 2.0 devices if not found, TPM 1.2 devices will be enumerated
- Disable Block Sid**  
 Override to allow SID authentication in TCG Storage device.

### 3.4.2. Secure Boot



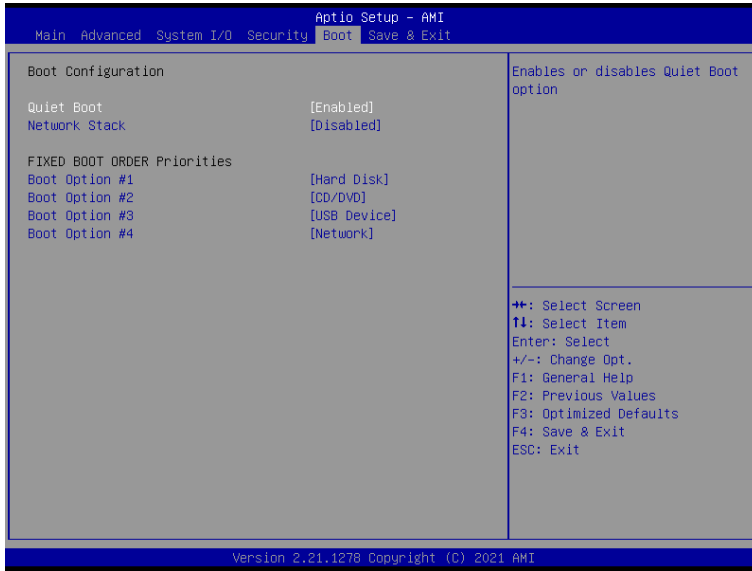
- Secure Boot**  
 Secure Boot feature is Active if Secure Boot is Enabled, Platform Key (PK) is enrolled and the System mode is in User mode. Changing the mode requires platform reset.
- Secure Boot Mode**  
 Secure Boot mode options: Standard or Custom. In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full authentication.

### 3.4.2.1. Key Management



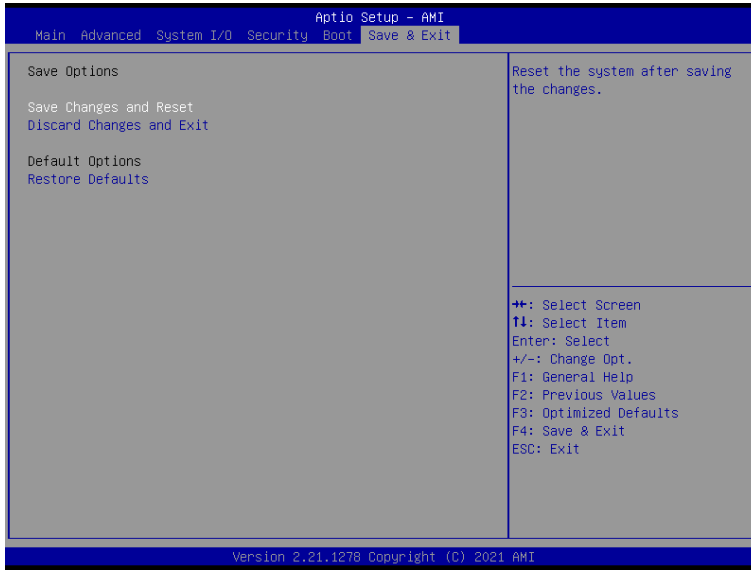
- **Factory Key Provision**  
Install factory default Secure Boot keys after the platform reset and while the System is in Setup mode.

### 3.5. Boot Setup



- **Quiet Boot**  
Enables or disables Quiet Boot option.
- **Network Stack**  
Enable/ Disable UEFI Network Stack

## 3.6. Save & Exit Setup



## 4. Drivers Installation

### 4.1. Driver Download and Installation

Drivers for the ACM-TGLUE0 can be downloaded from the product page on the Acrosser website by following this link:

<https://www.acrosser.com/en/Support/Download/>

Download the driver(s) you need and extract the zip. Then, follow the steps below to install the drivers.

- **Audio Driver (Windows 10)**
  1. Open the folder where you unzipped the **Audio Drivers**
  2. Run the **Setup.exe** in the folder
  3. Follow the instructions
  4. Drivers will be installed automatically
- **Chipset Driver (Windows 10)**
  1. Open the folder where you unzipped the **Chipset Drivers**
  2. Run the **SetupChipset.exe** file in the folder
  3. Follow the instructions
  4. Drivers will be installed automatically
- **Graphics Driver (Windows 10)**
  1. Open the folder where you unzipped the **Graphics Drivers**
  2. Run the **igxpin.exe** file in the folder
  3. Follow the instructions
  4. Drivers will be installed automatically
  5. Refer to the ReadMe.txt for any assistance.
- **LAN Drivers (Windows 10)**
  1. Open the folder where you unzipped the **LAN Drivers**
  2. Read the **ReadMe.txt** file before proceeding. Caution: Be sure to install the driver package before installing the Intel® PROSet package.
  3. Open the **Wired\_driver\_26.3\_x64** folder
  4. Run the **Wired\_driver\_26.3\_x64.exe** file in the folder
  5. Follow the instructions, drivers will be installed automatically.
  6. After installing the LAN driver, install Intel® PROSet package (optional)
  7. Open the **Wired\_PROSet\_26.3\_x64** folder
  8. Run the **Wired\_PROSet\_26.3\_x64.exe** file in the folder



9. Follow the instructions
  10. Drivers will be installed automatically
- **Intel® Active Management Technology Drivers (Windows 10)**
    1. Open the folder where you unzipped the **Intel AMT Drivers**
    2. Drivers must be installed manually, refer to Windows guidance to complete steps.
  - **Intel® Management Engine Interface Drivers (Windows 10)**
    1. Open the folder where you unzipped the **Intel MEI Drivers**
    2. Drivers must be installed manually, refer to Windows guidance to complete steps.
  - **Peripheral Driver (Linux)**
    1. Open the folder where you unzipped the **Peripheral Drivers**
    2. Follow the instructions contained within the user guides to install the related drivers.

## 5. Appendix

### 5.1. I/O Information

#### 5.1.1. I/O Address Map

Address Range	Device Name
[0000000000000000 - 000000000000CF7]	PCI Express Root Complex
[0000000000000020 - 000000000000021]	Programmable interrupt controller
[0000000000000024 - 000000000000025]	Programmable interrupt controller
[0000000000000028 - 000000000000029]	Programmable interrupt controller
[000000000000002C - 00000000000002D]	Programmable interrupt controller
[000000000000002E - 00000000000002F]	Motherboard resources
[0000000000000030 - 000000000000031]	Programmable interrupt controller
[0000000000000034 - 000000000000035]	Programmable interrupt controller
[0000000000000038 - 000000000000039]	Programmable interrupt controller
[000000000000003C - 00000000000003D]	Programmable interrupt controller
[0000000000000040 - 000000000000043]	System timer
[000000000000004E - 00000000000004F]	Motherboard resources
[0000000000000050 - 000000000000053]	System timer
[0000000000000061 - 000000000000061]	Motherboard resources
[0000000000000063 - 000000000000063]	Motherboard resources
[0000000000000065 - 000000000000065]	Motherboard resources
[0000000000000067 - 000000000000067]	Motherboard resources
[0000000000000068 - 000000000000068]	Microsoft ACPI-Compliant Embedded Controller
[000000000000006C - 00000000000006C]	Microsoft ACPI-Compliant Embedded Controller
[0000000000000070 - 000000000000070]	Motherboard resources
[0000000000000080 - 000000000000080]	Motherboard resources
[0000000000000092 - 000000000000092]	Motherboard resources
[00000000000000A0 - 0000000000000A1]	Programmable interrupt controller
[00000000000000A4 - 0000000000000A5]	Programmable interrupt controller
[00000000000000A8 - 0000000000000A9]	Programmable interrupt controller
[00000000000000AC - 0000000000000AD]	Programmable interrupt controller
[00000000000000B0 - 0000000000000B1]	Programmable interrupt controller
[00000000000000B2 - 0000000000000B3]	Motherboard resources
[00000000000000B4 - 0000000000000B5]	Programmable interrupt controller
[00000000000000B8 - 0000000000000B9]	Programmable interrupt controller
[00000000000000BC - 0000000000000BD]	Programmable interrupt controller
[00000000000002F8 - 0000000000002FF]	Communications Port (COM2)
[00000000000003F8 - 0000000000003FF]	Communications Port (COM1)
[00000000000004D0 - 0000000000004D1]	Programmable interrupt controller
[0000000000000680 - 00000000000069F]	Motherboard resources
[0000000000000D00 - 000000000000FFFF]	PCI Express Root Complex
[000000000000164E - 000000000000164F]	Motherboard resources
[0000000000001800 - 00000000000018FE]	Motherboard resources
[0000000000001854 - 0000000000001857]	Motherboard resources
[0000000000002000 - 00000000000020FE]	Motherboard resources

- [0000000000002000 - 00000000000020FE] Motherboard resources
- [0000000000003000 - 000000000000303F] Intel(R) Iris(R) Xe Graphics
- [0000000000003060 - 000000000000307F] Standard SATA AHCI Controller
- [0000000000003080 - 0000000000003083] Standard SATA AHCI Controller
- [0000000000003090 - 0000000000003097] Standard SATA AHCI Controller
- [000000000000EFA0 - 000000000000EFBF] Intel(R) SMBus - A0A3
- [000000000000FFF8 - 000000000000FFFF] Intel(R) Active Management Technology - SOL (COM3)

## 5.1.2. Memory Address Map











































- Memory
  - [000000000000A0000 - 000000000000BFFFF] PCI Express Root Complex
  - [000000004F400000 - 000000004F4FFFFF] Intel(R) Ethernet Controller (3) I225-LM
  - [000000004F400000 - 000000004F5FFFFF] Intel(R) PCI Express Root Port #9 - A0B0
  - [000000004F400000 - 00000000BFFFFFFF] PCI Express Root Complex
  - [000000004F500000 - 000000004F503FFF] Intel(R) Ethernet Controller (3) I225-LM
  - [000000004F600000 - 000000004F603FFF] Standard NVM Express Controller
  - [000000004F600000 - 000000004F6FFFFF] PCI-to-PCI Bridge
  - [000000004F700000 - 000000004F701FFF] Standard SATA AHCI Controller
  - [000000004F702000 - 000000004F7027FF] Standard SATA AHCI Controller
  - [000000004F703000 - 000000004F7030FF] Standard SATA AHCI Controller
  - [00000000BFFFFFF000 - 00000000BFFFFFFF] Intel(R) Active Management Technology - SOL (COM3)
  - [00000000C0000000 - 00000000CFFFFFFF] Motherboard resources
  - [00000000FD000000 - 00000000FD6FFFFF] Motherboard resources
  - [00000000FD690000 - 00000000FD69FFFF] Intel(R) GPIO Controller - 34C5
  - [00000000FD6A0000 - 00000000FD6AFFFF] Intel(R) GPIO Controller - 34C5
  - [00000000FD6B0000 - 00000000FD6CFFFF] Motherboard resources
  - [00000000FD6D0000 - 00000000FD6DFFFF] Intel(R) GPIO Controller - 34C5
  - [00000000FD6E0000 - 00000000FD6EFFFF] Intel(R) GPIO Controller - 34C5
  - [00000000FD6F0000 - 00000000FDFFFFFF] Motherboard resources
  - [00000000FE000000 - 00000000FE01FFFF] Motherboard resources
  - [00000000FE010000 - 00000000FE010FFF] Intel(R) SPI (flash) Controller - A0A4
  - [00000000FE04C000 - 00000000FE04FFFF] Motherboard resources
  - [00000000FE050000 - 00000000FE0AFFFF] Motherboard resources
  - [00000000FE0D0000 - 00000000FE0EFFFF] Motherboard resources
  - [00000000FE200000 - 00000000FE7FFFFFFF] Motherboard resources
  - [00000000FED00000 - 00000000FED003FF] High precision event timer
  - [00000000FED20000 - 00000000FED7FFFF] Motherboard resources
  - [00000000FED40000 - 00000000FED44FFF] Trusted Platform Module 2.0
  - [00000000FED45000 - 00000000FED8FFFF] Motherboard resources
  - [00000000FED90000 - 00000000FED93FFF] Motherboard resources
  - [00000000FEDA0000 - 00000000FEDA0FFF] Motherboard resources
  - [00000000FEDA1000 - 00000000FEDA1FFF] Motherboard resources
  - [00000000FEDC0000 - 00000000FEDC7FFF] Motherboard resources
  - [00000000FEE00000 - 00000000FEEFFFFFFF] Motherboard resources
  - [00000000FF000000 - 00000000FFFFFFFF] Motherboard resources
  - [00000004000000000 - 0000000400FFFFFFF] Intel(R) Iris(R) Xe Graphics
  - [00000006000000000 - 000000060000FFFFFFF] Intel(R) Iris(R) Xe Graphics
  - [00000006001100000 - 0000000600110FFFF] Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
  - [00000006001110000 - 0000000600111FFFF] Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
  - [00000006001128000 - 000000060011280FF] Intel(R) SMBus - A0A3
  - [00000007FFFEF8000 - 00000007FFFEFBFFF] Intel(R) Management Engine Interface #1
  - [00000007FFFEFB000 - 00000007FFFEFBFFF] Intel(R) Management Engine Interface #1
  - [00000007FFFEFC000 - 00000007FFFEFFFFF] High Definition Audio Controller
  - [00000007FFFEF0000 - 00000007FFFEFFFFF] High Definition Audio Controller











































## 5.1.3. Large Memory Address Map











































- Large Memory
  - [00000040000000000 - 00000007FFFFFFFFF] PCI Express Root Complex











































## 5.1.4. IRQ Mapping Chart

Interrupt request (IRQ)	
(ISA) 0x00000000 (00)	System timer
(ISA) 0x00000003 (03)	Communications Port (COM2)
(ISA) 0x00000004 (04)	Communications Port (COM1)
(ISA) 0x0000000E (14)	Intel(R) GPIO Controller - 34C5
(ISA) 0x00000036 (54)	Microsoft ACPI-Compliant System
(ISA) 0x00000037 (55)	Microsoft ACPI-Compliant System
(ISA) 0x00000038 (56)	Microsoft ACPI-Compliant System
(ISA) 0x00000039 (57)	Microsoft ACPI-Compliant System
(ISA) 0x0000003A (58)	Microsoft ACPI-Compliant System
(ISA) 0x0000003B (59)	Microsoft ACPI-Compliant System
(ISA) 0x0000003C (60)	Microsoft ACPI-Compliant System
(ISA) 0x0000003D (61)	Microsoft ACPI-Compliant System
(ISA) 0x0000003E (62)	Microsoft ACPI-Compliant System
(ISA) 0x0000003F (63)	Microsoft ACPI-Compliant System
(ISA) 0x00000040 (64)	Microsoft ACPI-Compliant System
(ISA) 0x00000041 (65)	Microsoft ACPI-Compliant System
(ISA) 0x00000042 (66)	Microsoft ACPI-Compliant System
(ISA) 0x00000043 (67)	Microsoft ACPI-Compliant System
(ISA) 0x00000044 (68)	Microsoft ACPI-Compliant System
(ISA) 0x00000045 (69)	Microsoft ACPI-Compliant System
(ISA) 0x00000046 (70)	Microsoft ACPI-Compliant System
(ISA) 0x00000047 (71)	Microsoft ACPI-Compliant System
(ISA) 0x00000048 (72)	Microsoft ACPI-Compliant System
(ISA) 0x00000049 (73)	Microsoft ACPI-Compliant System
(ISA) 0x0000004A (74)	Microsoft ACPI-Compliant System
(ISA) 0x0000004B (75)	Microsoft ACPI-Compliant System
(ISA) 0x0000004C (76)	Microsoft ACPI-Compliant System
(ISA) 0x0000004D (77)	Microsoft ACPI-Compliant System
(ISA) 0x0000004E (78)	Microsoft ACPI-Compliant System
(ISA) 0x0000004F (79)	Microsoft ACPI-Compliant System
(ISA) 0x00000050 (80)	Microsoft ACPI-Compliant System
(ISA) 0x00000051 (81)	Microsoft ACPI-Compliant System
(ISA) 0x00000052 (82)	Microsoft ACPI-Compliant System
(ISA) 0x00000053 (83)	Microsoft ACPI-Compliant System
(ISA) 0x00000054 (84)	Microsoft ACPI-Compliant System
(ISA) 0x00000055 (85)	Microsoft ACPI-Compliant System
(ISA) 0x00000056 (86)	Microsoft ACPI-Compliant System
(ISA) 0x00000057 (87)	Microsoft ACPI-Compliant System
(ISA) 0x00000058 (88)	Microsoft ACPI-Compliant System
(ISA) 0x00000059 (89)	Microsoft ACPI-Compliant System
(ISA) 0x0000005A (90)	Microsoft ACPI-Compliant System











































 (ISA) 0x0000005A (90)	Microsoft ACPI-Compliant System
 (ISA) 0x0000005B (91)	Microsoft ACPI-Compliant System
 (ISA) 0x0000005C (92)	Microsoft ACPI-Compliant System
 (ISA) 0x0000005D (93)	Microsoft ACPI-Compliant System
 (ISA) 0x0000005E (94)	Microsoft ACPI-Compliant System
 (ISA) 0x0000005F (95)	Microsoft ACPI-Compliant System
 (ISA) 0x00000060 (96)	Microsoft ACPI-Compliant System
 (ISA) 0x00000061 (97)	Microsoft ACPI-Compliant System
 (ISA) 0x00000062 (98)	Microsoft ACPI-Compliant System
 (ISA) 0x00000063 (99)	Microsoft ACPI-Compliant System
 (ISA) 0x00000064 (100)	Microsoft ACPI-Compliant System
 (ISA) 0x00000065 (101)	Microsoft ACPI-Compliant System
 (ISA) 0x00000066 (102)	Microsoft ACPI-Compliant System
 (ISA) 0x00000067 (103)	Microsoft ACPI-Compliant System
 (ISA) 0x00000068 (104)	Microsoft ACPI-Compliant System
 (ISA) 0x00000069 (105)	Microsoft ACPI-Compliant System
 (ISA) 0x0000006A (106)	Microsoft ACPI-Compliant System
 (ISA) 0x0000006B (107)	Microsoft ACPI-Compliant System
 (ISA) 0x0000006C (108)	Microsoft ACPI-Compliant System
 (ISA) 0x0000006D (109)	Microsoft ACPI-Compliant System
 (ISA) 0x0000006E (110)	Microsoft ACPI-Compliant System
 (ISA) 0x0000006F (111)	Microsoft ACPI-Compliant System
 (ISA) 0x00000070 (112)	Microsoft ACPI-Compliant System
 (ISA) 0x00000071 (113)	Microsoft ACPI-Compliant System
 (ISA) 0x00000072 (114)	Microsoft ACPI-Compliant System
 (ISA) 0x00000073 (115)	Microsoft ACPI-Compliant System
 (ISA) 0x00000074 (116)	Microsoft ACPI-Compliant System
 (ISA) 0x00000075 (117)	Microsoft ACPI-Compliant System
 (ISA) 0x00000076 (118)	Microsoft ACPI-Compliant System
 (ISA) 0x00000077 (119)	Microsoft ACPI-Compliant System
 (ISA) 0x00000078 (120)	Microsoft ACPI-Compliant System
 (ISA) 0x00000079 (121)	Microsoft ACPI-Compliant System
 (ISA) 0x0000007A (122)	Microsoft ACPI-Compliant System
 (ISA) 0x0000007B (123)	Microsoft ACPI-Compliant System
 (ISA) 0x0000007C (124)	Microsoft ACPI-Compliant System
 (ISA) 0x0000007D (125)	Microsoft ACPI-Compliant System
 (ISA) 0x0000007E (126)	Microsoft ACPI-Compliant System
 (ISA) 0x0000007F (127)	Microsoft ACPI-Compliant System
 (ISA) 0x00000080 (128)	Microsoft ACPI-Compliant System
 (ISA) 0x00000081 (129)	Microsoft ACPI-Compliant System
 (ISA) 0x00000082 (130)	Microsoft ACPI-Compliant System
 (ISA) 0x00000083 (131)	Microsoft ACPI-Compliant System











































	(ISA) 0x00000083 (131)	Microsoft ACPI-Compliant System
	(ISA) 0x00000084 (132)	Microsoft ACPI-Compliant System
	(ISA) 0x00000085 (133)	Microsoft ACPI-Compliant System
	(ISA) 0x00000086 (134)	Microsoft ACPI-Compliant System
	(ISA) 0x00000087 (135)	Microsoft ACPI-Compliant System
	(ISA) 0x00000088 (136)	Microsoft ACPI-Compliant System
	(ISA) 0x00000089 (137)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008A (138)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008B (139)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008C (140)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008D (141)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008E (142)	Microsoft ACPI-Compliant System
	(ISA) 0x0000008F (143)	Microsoft ACPI-Compliant System
	(ISA) 0x00000090 (144)	Microsoft ACPI-Compliant System
	(ISA) 0x00000091 (145)	Microsoft ACPI-Compliant System
	(ISA) 0x00000092 (146)	Microsoft ACPI-Compliant System
	(ISA) 0x00000093 (147)	Microsoft ACPI-Compliant System
	(ISA) 0x00000094 (148)	Microsoft ACPI-Compliant System
	(ISA) 0x00000095 (149)	Microsoft ACPI-Compliant System
	(ISA) 0x00000096 (150)	Microsoft ACPI-Compliant System
	(ISA) 0x00000097 (151)	Microsoft ACPI-Compliant System
	(ISA) 0x00000098 (152)	Microsoft ACPI-Compliant System
	(ISA) 0x00000099 (153)	Microsoft ACPI-Compliant System
	(ISA) 0x0000009A (154)	Microsoft ACPI-Compliant System
	(ISA) 0x0000009B (155)	Microsoft ACPI-Compliant System
	(ISA) 0x0000009C (156)	Microsoft ACPI-Compliant System
	(ISA) 0x0000009D (157)	Microsoft ACPI-Compliant System
	(ISA) 0x0000009E (158)	Microsoft ACPI-Compliant System
	(ISA) 0x0000009F (159)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A0 (160)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A1 (161)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A2 (162)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A3 (163)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A4 (164)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A5 (165)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A6 (166)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A7 (167)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A8 (168)	Microsoft ACPI-Compliant System
	(ISA) 0x000000A9 (169)	Microsoft ACPI-Compliant System
	(ISA) 0x000000AA (170)	Microsoft ACPI-Compliant System
	(ISA) 0x000000AB (171)	Microsoft ACPI-Compliant System
	(ISA) 0x000000AC (172)	Microsoft ACPI-Compliant System











































 (ISA) 0x000000AC (172)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AD (173)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AE (174)	Microsoft ACPI-Compliant System
 (ISA) 0x000000AF (175)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B0 (176)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B1 (177)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B2 (178)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B3 (179)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B4 (180)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B5 (181)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B6 (182)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B7 (183)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B8 (184)	Microsoft ACPI-Compliant System
 (ISA) 0x000000B9 (185)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BA (186)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BB (187)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BC (188)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BD (189)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BE (190)	Microsoft ACPI-Compliant System
 (ISA) 0x000000BF (191)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C0 (192)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C1 (193)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C2 (194)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C3 (195)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C4 (196)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C5 (197)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C6 (198)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C7 (199)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C8 (200)	Microsoft ACPI-Compliant System
 (ISA) 0x000000C9 (201)	Microsoft ACPI-Compliant System
 (ISA) 0x000000CA (202)	Microsoft ACPI-Compliant System
 (ISA) 0x000000CB (203)	Microsoft ACPI-Compliant System
 (ISA) 0x000000CC (204)	Microsoft ACPI-Compliant System
 (ISA) 0x00000100 (256)	Microsoft ACPI-Compliant System
 (ISA) 0x00000101 (257)	Microsoft ACPI-Compliant System
 (ISA) 0x00000102 (258)	Microsoft ACPI-Compliant System
 (ISA) 0x00000103 (259)	Microsoft ACPI-Compliant System
 (ISA) 0x00000104 (260)	Microsoft ACPI-Compliant System
 (ISA) 0x00000105 (261)	Microsoft ACPI-Compliant System
 (ISA) 0x00000106 (262)	Microsoft ACPI-Compliant System
 (ISA) 0x00000107 (263)	Microsoft ACPI-Compliant System
 (ISA) 0x00000108 (264)	Microsoft ACPI-Compliant System











































 (ISA) 0x00000108 (264)	Microsoft ACPI-Compliant System
 (ISA) 0x00000109 (265)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010A (266)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010B (267)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010C (268)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010D (269)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010E (270)	Microsoft ACPI-Compliant System
 (ISA) 0x0000010F (271)	Microsoft ACPI-Compliant System
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 (ISA) 0x00000112 (274)	Microsoft ACPI-Compliant System
 (ISA) 0x00000113 (275)	Microsoft ACPI-Compliant System
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 (ISA) 0x0000011F (287)	Microsoft ACPI-Compliant System
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 (ISA) 0x00000123 (291)	Microsoft ACPI-Compliant System
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 (ISA) 0x0000012F (303)	Microsoft ACPI-Compliant System
 (ISA) 0x00000130 (304)	Microsoft ACPI-Compliant System
 (ISA) 0x00000131 (305)	Microsoft ACPI-Compliant System




































































	(ISA) 0x00000131 (305)	Microsoft ACPI-Compliant System
	(ISA) 0x00000132 (306)	Microsoft ACPI-Compliant System
	(ISA) 0x00000133 (307)	Microsoft ACPI-Compliant System
	(ISA) 0x00000134 (308)	Microsoft ACPI-Compliant System
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	(ISA) 0x000001FD (509)	Microsoft ACPI-Compliant System
	(ISA) 0x000001FE (510)	Microsoft ACPI-Compliant System

	(ISA) 0x000001FE (510)	Microsoft ACPI-Compliant System
	(ISA) 0x000001FF (511)	Microsoft ACPI-Compliant System
	(PCI) 0x00000010 (16)	High Definition Audio Controller
	(PCI) 0x00000013 (19)	Intel(R) Active Management Technology - SOL (COM3)
	(PCI) 0xFFFFFEEC (-20)	Intel(R) Management Engine Interface #1
	(PCI) 0xFFFFFEED (-19)	Intel(R) Ethernet Controller (3) I225-LM
	(PCI) 0xFFFFFEE (-18)	Intel(R) Ethernet Controller (3) I225-LM
	(PCI) 0xFFFFFEF (-17)	Intel(R) Ethernet Controller (3) I225-LM
	(PCI) 0xFFFFFEF0 (-16)	Intel(R) Ethernet Controller (3) I225-LM
	(PCI) 0xFFFFFEF1 (-15)	Intel(R) Ethernet Controller (3) I225-LM
	(PCI) 0xFFFFFEF2 (-14)	Intel(R) Iris(R) Xe Graphics
	(PCI) 0xFFFFFEF3 (-13)	Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
	(PCI) 0xFFFFFEF4 (-12)	Intel(R) USB 3.10 eXtensible Host Controller - 1.20 (Microsoft)
	(PCI) 0xFFFFFEF5 (-11)	Standard NVM Express Controller
	(PCI) 0xFFFFFEF6 (-10)	Standard NVM Express Controller
	(PCI) 0xFFFFFEF7 (-9)	Standard NVM Express Controller
	(PCI) 0xFFFFFEF8 (-8)	Standard NVM Express Controller
	(PCI) 0xFFFFFEF9 (-7)	Standard NVM Express Controller
	(PCI) 0xFFFFFEFA (-6)	Standard NVM Express Controller
	(PCI) 0xFFFFFEFB (-5)	Standard NVM Express Controller
	(PCI) 0xFFFFFEFC (-4)	Standard NVM Express Controller
	(PCI) 0xFFFFFEFD (-3)	Standard NVM Express Controller
	(PCI) 0xFFFFFEFE (-2)	Standard SATA AHCI Controller

## 6. FAQ

### Q 1. *Where can I find the serial number of this product?*

- The serial number (S/N) is a label printed with alpha-numeric character. You can find the S/N label on the bottom of this product or on its packing box.

## Technical Support Form

We deeply appreciate your purchase of Acrosser products. Please find the “**tech\_form.doc**” file in our utility CD. If you have any questions or problems about Acrosser products, please fill in the following information. We will answer your questions in the shortest time possible.

### Describe Your Info and Acrosser System Info

- Your Company Name: \_\_\_\_\_
- Your Contact Info: \_\_\_\_\_ Phone Number: \_\_\_\_\_
- Your E-Mail Address: \_\_\_\_\_
- Your Company Address: \_\_\_\_\_  
\_\_\_\_\_
- Acrosser Model Name: \_\_\_\_\_
- Acrosser Serial Number: \_\_\_\_\_

### Describe System Configuration

- CPU Type: \_\_\_\_\_
- Memory Size: \_\_\_\_\_
- Storage Device (e.g. HDD, CF, or SSD): \_\_\_\_\_
- Additional Peripherals (e.g. Graphic Card): \_\_\_\_\_
- Operating System & Version (e.g. Windows 7 Embedded): \_\_\_\_\_
- Special API or Driver: \_\_\_\_\_  
(If yes, please provide it for debug.)
- Running Applications: \_\_\_\_\_
- Others: \_\_\_\_\_

### Describe Your Problems or Questions:

### Send the above information to one of the following Acrosser contacts:

- Acrosser Local Sales Representative
- Acrosser Authorized Sales Channels
- Acrosser Inquiry --- <http://www.acrosser.com/inquiry.html>
- Acrosser FAX Number --- 886-2-29992887



# To Make Your **Embedded** Idea a Reality



## **Acrosser Headquarters**

241402新北市三重區重新路5段609巷4號3樓之8  
Rm. 8, 3F., No. 4, Ln. 609, Sec. 5, Chongxin Rd.,  
Sanchong Dist., New Taipei City 241402, Taiwan  
(R.O.C.)

TEL: +886-2-29999000

FAX: +886-2-29992887 / +886-2-29993960

## **Acrosser Taichung Office**

414台中市烏日區僑仁街8號10樓之1  
10F.-1, No.8, Qiaoren St., Wuri Dist.,  
Taichung City 414, Taiwan (R.O.C.)

TEL: +886-4-2337-0715

FAX: +886-4-2337-3422

## **Acrosser China Subsidiary**

深圳市欣扬通电子有限公司  
深圳市福田区泰然八路安华工业区6号楼7层  
706室 (邮编: 518040)

Room 706, floor 7, building 6, Anhua Industrial  
Zone, Tairan 8th Road, Futian District, Shenzhen,  
China (Postal: 518040)

TEL: +86-755-83542210

FAX: +86-755-83700087

## **Acrosser Nanjing Office**

欣扬通电子有限公司 南京办事处  
江苏省南京市江宁区天元东路228号504室  
(邮编: 211100)

Room 504, No. 228, Tian Yuan East Rd.,  
Jiang Ning Dist., Nanjing City, Jiangsu Province,  
China (Postal: 211100)

Mobile: 13611932003

TEL: +86-025-86137002

FAX: +86-025-86137003

## **Acrosser Beijing Office**

欣扬通电子有限公司 北京办事处  
北京市昌平区沙河镇沙阳路巩华新村8号楼2单元  
1403室 (邮编: 102206)

Room 1403, Unit 2, Building 8, Gonghua Village,  
Shahe Town, Changping District, Beijing, China  
(Postal: 102206)

Mobile: 13311317329

## **Acrosser USA Inc.**

8351 Elm Ave. Suite 107, Rancho Cucamonga,  
CA91730, USA

TEL: +1-909-476-0071

FAX: +1-909-466-9951